

This question paper contains 3 printed pages]

Y—450—2019

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (First Year) (Second Semester) (Backlog) EXAMINATION

NOVEMBER/DECEMBER, 2019

(Old/CBCS Pattern)

COMPUTER SCIENCE (Optional)

Paper—III

(Programming in C)

(Wednesday, 11-12-2019)

Time : 10.00 a.m. to 12.00 noon

Time— Two Hours

Maximum Marks—40

- N.B. :—*
- (i) All questions are compulsory.*
 - (ii) Figures to the right indicate full marks.*
 - (iii) Assume your own data if necessary.*

(MCQ)

1. Attempt the following : 10
- (i) The value which changes during execution of program is called
 - (a) Constant
 - (b) Variable
 - (c) Identifier
 - (d) None of these
 - (ii) Scanf() is function in C.
 - (a) Output
 - (b) Structured
 - (c) Input
 - (d) Arithmetic
 - (iii) is collection of homogeneous elements in C.
 - (a) Structure
 - (b) Pointer
 - (c) Function
 - (d) Array
 - (iv) In the following statement is a looping control structure.
 - (a) if-else
 - (b) for
 - (c) switch
 - (d) None of these

P.T.O.

- (v) To find length of string string function is used.
- (a) Strlen() (b) Strcpy()
(c) Strcat() (d) All of these
- (vi) The format specifier to be used in float data is :
- (a) %f (b) %d
(c) % floate (d) % C
- (vii) is operator in combination of ? :
- (a) Arithmetic (b) Relational
(c) Logical (d) Conditional
- (viii) Structure is known as :
- (a) Primary data type (b) Derived data type
(c) Array data type (d) None of these
- (ix) is variable which holds address of another variable.
- (a) Pointer (b) Records
(c) Array (d) Union
- (x) statement is example of multiple branching.
- (a) Switch-case (b) For
(c) While stmt (d) if-else

(Theory)

2. (a) What is data type ? Explain fundamental data types used in C. 10

Or

- (b) What is looping ? Explain for loop with example. 5
- (c) Explain bitwise operators in C. 5

3. (a) Explain different types of arrays and their memory representation with an example. 10

Or

- (b) What is pointer variable ? Explain address of operator used in pointer. 5

- (c) Write a program in C to find Factorial of given no. 5

4. (a) What is string function ? Explain : Strlen(), Strcat(), and Strcpy() with example. 10

Or

- (b) What is function ? Explain recursion function. 5

- (c) Explain storage classes in C. 5